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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,052	12/04/2003	Shahab M. Sayeedi	CE11765R	8941
22917 MOTOROLA, I	7590 03/26/201 INC.	0	EXAMINER	
	GONQUIN ROAD		JAIN, RAJ K	
SCHAUMBUR	.G, IL 60196		ART UNIT	PAPER NUMBER
			2472	
			NOTIFICATION DATE	DELIVERY MODE
			03/26/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.US@motorola.com

	Application No.	Applicant(s)					
	10/728,052	SAYEEDI, SHAHAB M.					
Office Action Summary	Examiner	Art Unit					
	RAJ JAIN	2472					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
	VIC CET TO EVOIDE AMONTHY	C) OD TUUDTY (20) DAYC					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period versions of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>15 Ja</u>	anuarv 2010.						
	action is non-final.						
3) Since this application is in condition for allowar							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
• 4)⊠ Claim(s) <u>15-18,25-27 and 29-51</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>15-18,25-27 and 29-51</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>04 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)	-						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da	(PTO-413) ate.					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	Patent Application (PTO-152)					
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-18, 25-27 and 29-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al. (USP 6,757,270 B1) in view of Cao et al (US 20030195003 A1).

Regarding claim(s) 15, 33, 42 and 48 Kumar teaches a method for providing forward link packet data service to mobile stations (MSs) in a mobile communication system (Fig.1, abstract)), the method comprising:

providing, by a source base station (BS) (Figs. 4-5, primary BS as source), data for transmission to the MS via a forward link (data transmitted to MS(active) as shown in Fig. 5A; BS transmits data bursts via forward link to MS; col 15 lines 65 - 67); receiving an indication that the MS intends to switch from a forward link of a serving cell to a forward link of a target cell for data transmission service (Fig. 9, illustrates reverse link two way soft handoff, in other words from source BS to target BS where the mobile informs the source BS it's intention of moving to target BS; see also Fig. 5b; col 15 lines 17-23).

Kumar fails to disclose wherein the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell and providing such indication to the MS via the forward link of the target cell.

Cao discloses wherein the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell and providing such indication to the MS via the forward link of the target cell (Fig. 1; abstract; Paras 6,10,11,15 and 16; claims 1 and 6).

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Base station resource allocation allows for reduced probability of handover failure or drop of communications if a channel is available from the target cell or otherwise a non-available channel indication is sent to the mobile accordingly.

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Thus it would have been obvious at the time the invention was made to incorporate the teachings of Cao within Kumar so as to improve handover processing without drop in communications of a traversing mobile unit from one station to another.

Regarding claim(s) 16, Kumar discloses wherein receiving the indication that the MS intends to switch comprises receiving the indication by the source BS from the MS via the serving cell and wherein the source BS comprises the serving cell and is a serving BS of the MS (see Fig. 6, col 15 lines 39-63; col 16 lines 1-27)..

Regarding claim(s) 17 and 27, Kumar discloses wherein receiving the indication that the MS intends to switch comprises receiving the indication by the source BS from a serving BS and wherein the serving BS comprises the serving cell (Fig. 6, col 15 lines 39-63; col 16 lines 1-27).

Regarding claim(s) 18, Kumar discloses wherein receiving the indication that the MS intends to switch comprises receiving the indication by the source BS from a target BS and wherein the target BS comprises the target cell (Fig. 9, illustrates reverse link two way soft handoff, in other words from source BS to target BS where the mobile informs the source BS it's intention of moving to target BS; col 15 lines 17-23).

Regarding claim(s) 25, Kumar discloses determining whether the target cell is presently available to provide data transmission service to the MS via the forward link of the target cell comprises sending an indication to a target BS that the MS intends to switch to the forward link of the target cell for data transmission service (general specs the procedure for switching BS is via the handoff procedures). Cao discloses wherein the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell and providing such indication to the MS via the forward link of the target cell (Fig. 1; Paras 6,10,11,15 and 16; claims 1 and 6).

Regarding claim(s) 29, 30, 37, 47, and 51 Kumar discloses sending the indication to the MS that the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell comprises sending the indication

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to the MS via a forward packet data control channel (F-PDCCH) of the serving cell (col 2 lines 16-22).

Regarding claim(s) 26, and 36, Kumar discloses determining whether the cell is presently available to provide data transmission service to the MS via the forward link of the cell comprises receiving an indication that the cell is presently unavailable to provide data transmission service to the MS via the forward link of the cell (col 18 lines 60-65).

Regarding claim(s) 31, 32, 39, 40, 45, 46, 49, and 50, Kumar discloses indicating to the MS that the cell will not provide data transmission service to the MS via the forward link comprises sending, by the cell, a Universal Handoff Direction message (UHDM) that indicates that the cell does not support a forward link (col 10 lines 6-24, primary base station active set indicates cells which inherently provide transmission on the forward and/or reverse links to appropriate mobiles).

Regarding claim(s) 34, 35, Kumar discloses determining whether the cell is presently available comprises determining, when creating an active set for the MS, whether the cell is presently available to provide data transmission service to the MS via the forward link of the cell (col 11 lines 30-52).

Regarding claim(s) 38, 41 and 43, Kumar fails to disclose wherein the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell and providing such indication to the MS via the forward link of the target cell.

Cao discloses wherein the target cell is presently unavailable to provide data transmission service to the MS via the forward link of the target cell and providing such indication to the MS via the forward link of the target cell (Fig. 1; Paras 6,10,11,15 and 16; claims 1 and 6).

Base station resource allocation allows for reduced probability of handover failure or drop of communications if a channel is available from the target cell or otherwise a non-available channel indication is sent to the mobile accordingly.

Thus it would have been obvious at the time the invention was made to incorporate the teachings of Cao within Kumar so as to improve handover processing without drop in communications of a traversing mobile unit from one station to another.

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Regarding claim(s) 44 Kumar discloses a general CDMA system for generic handoff processing (Fig. 9), Examiner takes official notice that BSC- BTS signaling interface is fundamental within a wireless network (see USP 6771621 as example).

Response to Arguments

Applicant's arguments with respect to claims 15-18, 25-27 and 29-51 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAJ JAIN whose telephone number is (571)272-3145. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raj K. Jain/

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